



Release 3.1A. John F. Collins, Biocomputing Research Unit.

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Mpsrch_pp protein - protein database search, using Smith-Waterman algorithm

Run on: Wed Apr 12 08:04:32 2000: MasPar time 13.26 Seconds

Tabular output not generated.

566.101 Million cell updates/sec

Title: >US-09-276-268-20

Description: (1-317) from US09276268-pp

Perfect Score: 2378

Sequence: 1 NRSGALPILNQALWVYGS.....KKAGAGRTVKSQAQKAKAR 317

Scoring table: PAM 150

Gap 11

Searched: 188963 seqs, 23686106 residues

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database:

Statistics:

Mean 33.327; Variance 130.318; scale 0.256

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,

and is derived by analysis of the total score distribution.

SUMMARY

Result No.	Score	Query	Match	Length	DB ID	Description	Prod. No.
1	155.6	66.2	263	1	Y01093	Human follistatin-3 pr	6.11e-155
2	795.6	31.2	263	1	Y01093	Follistatin-3	2.2e-70
3	795.3	31.2	317	1	R31996	Human follistatin-3 (fES	6.8e-40
4	795.3	31.2	304	1	R30062	Bat follistatin-binding proei	6.6e-40
5	793.9	32.9	304	1	R30062	Human follistatin-binding proei	2.9e-69
6	778.3	32.7	304	1	R30061	Pig EDG-binding protein	1.0e-68
7	510.2	21.4	452	1	R07724	Human EDG-binding protein	5.5e-40
8	496.2	20.2	452	1	M1137	Elongation factor-1alpha	6.6e-40
10	428.0	18.0	450	1	M1138	Protein kinase C epsilon	4.0e-39
11	393.3	16.5	293	1	R05567	Plant elongation factor 1	9.7e-32
12	393.1	16.5	447	1	R1194	Plant elongation factor 1	5.5e-28
13	382.3	16.5	458	1	R30509	Transplant elongation factor	4.5e-28
14	388.2	16.3	294	1	R05569	Transplant elongation factor	1.1e-27
15	388.1	16.3	448	1	R1193	Leer-1 protein	1.1e-27
16	388.1	16.3	448	1	R05569	Leer-1 protein polypep	1.1e-27
17	388.1	16.3	448	1	R05569	Leer-1 protein polypep	1.1e-27
18	188.7	7.9	664	1	W04329	Human Hp antigenic protein	8.9e-08
19	170.0	7.1	308	1	W1766	Follistatin related pr	4.2e-08
20	168.0	7.1	308	1	W0906	Transforming growth fa	6.5e-06
21	160.6	6.7	459	1	R4371	Human GSP117K	3.5e-05
22	133.6	6.0	303	1	R05164	Sequence of human bone	1.2e-03
23	140.9	5.9	374	1	W0765	Human transforming gro	2.5e-03

ALIGNMENTS

RESULT [1] Y01093 standard: Protein 263 AA.

DE 11-JUN-1999 (first entry)

DE Human follistatin-3 protein sequence.

KW Follistatin-3; human; cancer; cellular

KW differentiation disorder; reproductive system disorder; male sterility;

KW gonadotroph adenoma; gondatroph adenoma; male sterility;

KW gonadotroph adenoma; testicular cancer; tumor;

KW fibrotic disorder; osteoarthritis; haemangioma; fibrosis; tumour;

KW sepias; cancer; silicosis; sarcoidosis; endometriosis; shock; therapy.

OS Homo sapiens

PN NKG913104-A1

PR 23-JUN-1999; US056246

PI (HOMA) HUMAN GENOME SCI INC.

DR WPI; 99-204646/17;

DR I-B-PDB; X28124.

PT New follistatin-polypeptides and nucleic acids - used to develop

PT fibrotic disorders, angiogenesis, male sterility, wound healing,

PT inflammatory and autoimmune, antiviral and

PT ClsA 18: 1109P; English.

PS This sequence is the follistatin-3 (FS3) protein of the invention.

CC The products can be used to treat cancers and other cellular growth and

CC differentiation disorders as well as disorders of the reproductive

CC system. FS3 may be used to treat male sterility.

CC The products can be used to treat the proliferation of follicular granulosa

CC cells. FS3 may be used to inhibit the proliferation of ovarian epithelial

CC cell activity and, as a result, induces angiogenesis. Treatment of ovarian

CC increase the expression or the progression of gonadotroph adenoma, osteocarcinoma, hepatofibrosis, and other

CC tumours and cancers. FS3 may also be used to treat other fibrotic

CC diseases. FS3 may also be used to treat haemangioma and other

CC diseases. Antagonists of FS3 may be used to antagonise the actions of

CC oestrogen and other hormones to prevent or inhibit the reduction of blood vessels.

CC production of spermatocysts, to modulate gonadal androgen biosynthesis.

CC gonadotrophs, sarcocystis, idiopathic pulmonary fibrosis by altering the

CC hyper-proliferation of stromal progenocytes, to treat idiopathic

CC angiogenesis, to treat septic shock, to treat idiopathic

CC prevention of the activation of macrophages.

CC Sequence 263 AA.

SQ

Ddb 542 KYVNIQGTVI-WEDAISNR 560
| : | : | : | : | : |

AMY amylase
CEN chitinase
CHN chitosanase
OS oxidase
SP spore-forming
Bacterium; Firmicutes; *Bacillus*/*Clostridium* group;
Fungi; Ascomycota (do. 3.4-4.1) (FORINE NUCLEOS LENSE.)

[1] CROATIAN-000-003.
SEQUENCE FROM N.A.

STRAIN-TS-23: